

<p>58-149149/22 803 ROBINS AMCO INC 21.11.84-US-933180 (01.06.88) A61k-31/49 1-Phenoxy-4-(4-arylpiperazinyl)-2-butanol - used esp. in medicament for combating type I allergic response in host C80-066-035 R0E CH DE FR GB IT U NL</p>	<p>ROBINS 21.11.84 *EP-269-383-A B(7-D5, 12-A7, 12-D2, 12-D6, 12-K2, 12-L4) N(1-A1)</p>
<p>Use of a 1-phenoxy-4-(4-arylpiperazinyl)-2-butanol of formula (I) in the prepn. of a medicament for combating Type I allergic response in a host is new.</p> <div data-bbox="62 203 357 282"> <p style="text-align: center;">(I)</p> </div> <p>Ar = -C<sub>6</sub>H<sub>4</sub>(X<sup>1</sup>)(Y<sup>1</sup>)(Z<sup>1</sup>) or 2-, 3- or 4-pyridyl; X, X<sup>1</sup> = H, 1-8C alkyl, 1-8C alkoxy, halogen, <u>CF<sub>3</sub></u>, NO<sub>2</sub>, NiI<sub>2</sub>, MeCONH, Ph, X<sup>11</sup>, Y<sup>11</sup>, C<sub>6</sub>H<sub>5</sub>, MeCO, <u>CONH<sub>2</sub></u>, COOH or (1-8C)alkoxycarbonyl; Y, Y<sup>1</sup>, Y<sup>11</sup> and X<sup>11</sup> = X substit. other than opt. substd. Ph; <u>Z, Z<sup>1</sup></u> = H, 1-8C alkyl or 1-8C alkoxy.</p>	<p>A salt and/or hydrate of (I) may also be used.</p> <p><b>MORE SPECIFICALLY</b> Y = H, 1-8C alkyl or halogen; Z = H, 1-8C alkyl or NO<sub>2</sub>; Y<sup>1</sup> = H, halogen or 1-8C alkoxy. The use of 50 specific cpds. (I) is claimed, including 1-(2-chlorophenoxy)-4-(4-phenyl-1-piperazinyl)-2-butanol (Ia).</p> <p><b>USE</b> (I) cause a decrease in the release of histamine and antagonise and organ effects of mediators involved in the immediate hypersensitivity response. They are therefore useful for treating allergic asthma, rhinitis, atopic dermatitis, chronic hives and allergic conjunctivitis. Dose is 4-160 mg daily.</p> <p style="text-align: right;">EP-269383-A*</p>

<p><b>PREPARATION</b></p> <div data-bbox="51 473 378 559"> </div> <p><b>EXAMPLE</b> 4-chlorophenoxy 1-2-hydroxybutyl chloride (35.1g), N-phenylpiperazine (32.6g) and i-PrOH (400 ml) were refluxed together for 48 hrs., then kept overnight at 0°C and filtered. The filtrate was treated with HCl/Et<sub>2</sub>O and Et<sub>2</sub>O, and the solid prod. was sepd., dissolved in dii. HCl and neutralised with eq. NaOH to give 3.6g of (Ia), m.pt. 100-101.5°C after recrystn. from i-PrOH. (30pp12481DDugNaOH/O). (E)ISR: No Search Report.</p>	<p style="text-align: right;">EP-269383-A</p>
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